Request for Graduate Addition, Deletion, or Change of a Certificate

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**
NOTE: *If proposing a new certificate, please read this first:* www.marshall.edu/graduate/graduatecouncil/certificatespolicy/certificatepolicy.pdf

College: COEPD   Dept/Division: Leadership Studies

Contact Person: Eugenia Damron   Phone: 304-746-8959
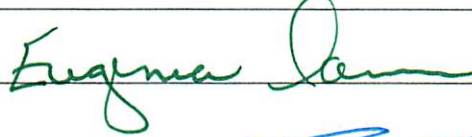
Name of Certificate   Certification in Social Service and Attendance

Check action requested: ☐ Addition   ☐ Deletion   ☒ Change

Effective Term/Year   Fall 20 ☐   Spring 20 ☒   Summer 20 ☒ *LH 1-31-2020*

Information on the following pages must be completed before signatures are obtained.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _Eugenia Dam_	Date	11-7-19
College Curriculum Chair _(signature)_	Date	11-18-19
College Dean _Sandra Stroebel_	Date	11-18-19
Graduate Council Chair _Lani Howard_	Date	2-1-2020
Provost/VP Academic Affairs _____	Date	
Presidential Approval _____	Date	

Form updated 10/2011

Please provide a rationale for addition, deletion, change:

Changing a plan of study course requirement from LS 693 School Law for Support Personnel to an existing program course that is used in our principal programs, LS 675 Legal and Policy Issues, to optimize student course enrollment.

Updating text in the "admission requirements" paragraph due to Graduate Admissions' changing the "link address" and Praxis updating the test number.

Text is being added to the catalog to explain existing program requirements. These requirements include designating a mentor and completing field experiences.

Text is also being added to only allow one grade of "C" in this certification program because there are only four courses (12 hours) required in this program.

Please describe any changes in curriculum:
List course number, title, credit hours. Note whether each course is required or optional. Enter NONE if no change.

Changing a plan of study course requirement from LS 693 School Law for Support Personnel to an existing program course that is used in our principal programs, LS 675 Legal and Policy Issues, to optimize student course enrollment.

Changing grade requirements to allow only one "C" in the certification program because there are only four courses required (12 hours).

1. ADDITIONAL RESOURCE REQUIREMENTS: If your program requires additional faculty, equipment or specialized materials to ADD or CHANGE this certificate, attach an estimate of the time and money required to secure these items.
NOTE: Approval of this form does not imply approval for additional resources. Enter NONE if not applicable.

No additional resources are needed.

2. NON-DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the request and any response received from them. Enter NONE if not applicable.

Not applicable.

For catalog changes as a result of the above actions, please fill in the following pages.

3. *Current* Catalog Description

Insert the *Current* Catalog Description and page number from the latest catalog for entries you would like to change. May attach separate page if needed)

Please see attached.

Catalog Page 119.

4. *Edits* to the Current Description

Attach a PDF copy of the current catalog description prepared in MS WORD with strikethroughs to mark proposed deletions and use the highlight function to indicate proposed new text.

5. *New* Catalog Description

Insert a 'clean' copy of your proposed description, i.e., no strikethroughs or highlighting included. This should be what you are proposing for the new description. (May attach separate page if needed).

Please see attached.

Certificate/Licensure in Social Service and Attendance

This program provides the required coursework for Social Service and Attendance licensure. The program is designed for educational personnel who hold a valid license, or for social workers who hold at least a bachelor's degree.

Admission Requirements – Social Service and Attendance Licensure/Graduate Certificate Program

An applicant should apply as a Certificate/Professional Development student and select on the application form "Social Service and Attendance."

- Transcripts from the student's undergraduate institution(s) must be provided to Graduate Admissions at the time of application.
- Each candidate for the Social Services and Attendance Worker licensure must meet all admission requirements as a degree student. Scores from the Graduate Record Examination, the Miller Analogies Test, or a previous master's degree from an accredited institution must be on file at the time of admission. Students must score at least a 40 (tested prior to October 2004) or at least a 392 (after October, 2004) on the Miller Analogies Test. Students who take the Graduate Record Examination must have a combined score of 800 verbal and quantitative (tested prior to November, 2011) or at least a 286 (November, 2011 or after).
- All students follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0.

Program of Studies ....12 hrs.

COUN 670 Interventions for Current Issues in School Counseling OR
COUN 673 Counseling Children, Adolescents, and Parents
LS 693 School Law for Support Personnel
LS 691 The Attendance Director
LS 692 Internship: School Social Services

Certificate/Licensure in Social Service and Attendance (post-bachelor's)

This program provides the required coursework for Social Service and Attendance licensure in West Virginia. The program is designed for educational personnel who hold a valid license, or for social workers who hold at least a bachelor's degree. In addition to the coursework requirements, students who do not hold a Professional Teaching Certificate or a master's degree are required to pass the PRAXIS 5752 Core Academic Skills for Educators test for licensure.

Admission Requirements for— Social Service and Attendance Licensure/Graduate Certificate Program

Applicants should follow the graduate admission process in this catalog and on the Marshall website at *www.marshall.edu/admissions/apply*. Applicants should apply on the graduate application and select "Certificate (PB): Social Service and Attendance" on the application form.

In addition to Marshall University's requirements for graduate admission, applicants must have taken either the Miller Analogies Test (MAT), a minimum score of 392 is required, or the Graduate Record Examination (GRE), a minimum combined score of 286 (verbal plus quantitative) is required, within the last five years; or have a master's degree from a regionally-accredited institution.

Applicants may be admitted conditionally for one term while test requirements are pending. Applicants may be admitted provisionally when a GPA or test score does not meet the minimum requirements at the discretion of the program director. All conditional admission requirements must be completed for full admission status and to register for subsequent sessions.

An applicant should apply as a Certificate/Professional Development student and select on the application form "Social Service and Attendance."

• Transcripts from the student's undergraduate institution(s) must be provided to Graduate Admissions at the time of application.

• Each candidate for the Social Services and Attendance Worker licensure must meet all admission requirements as a degree student. Scores from the Graduate Record Examination, the Miller Analogies Test, or a previous master's degree from an accredited institution must be on file at the time of admission. Students must score at least a 40 (tested prior to October 2004) or at least a 392 (after October, 2004) on the Miller Analogies Test. Students who take the Graduate Record Examination must have a combined score of 800 verbal and quantitative (tested prior to November, 2011) or at least a 286 (November, 2011 or after).

• All students follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0.

Program of Studies for Social Service and Attendance -- 12 hours

....12 hrs.

COUN 670 Interventions for Current Issues in School Counseling

OR

COUN 673 Counseling Children, Adolescents, and Parents

LS 675 Legal and Policy Issues
~~LS 693 School Law for Support Personnel~~
LS 691 The Attendance Director
LS 692 Internship: School Social Services

Program Requirements for Social Service and Attendance

Every student must designate a practicing supervisor or attendance director who agrees to act as his/her mentor during the program. Field experiences are a required component of this program and are embedded in program classes.

A graduate certificate candidate in the program may receive no more than one grade of "C" in required coursework. In the event of a second grade of "C" or below, the student may be dismissed from the program.

Repeating a course for a higher grade does not negate the existence of the former grade. A student may be dismissed from the program upon earning a second grade of "C" or below, even if the student repeated a course and earned a higher grade.

Graduate Certificate/Licensure in Social Service and Attendance (post-bachelor's)

This program provides the required coursework for Social Service and Attendance licensure in West Virginia. The program is designed for educational personnel who hold a valid license, or for social workers who hold at least a bachelor's degree. In addition to the coursework requirements, students who do not hold a Professional Teaching Certificate or a master's degree are required to pass the PRAXIS 5752 Core Academic Skills for Educators test for licensure.

Admission Requirements for Social Service and Attendance

Applicants should follow the graduate admission process in this catalog and on the Marshall website at *www.marshall.edu/admissions/apply*. Applicants should apply on the graduate application and select "Certificate (PB): Social Service and Attendance" on the application form.

In addition to Marshall University's requirements for graduate admission, applicants must have taken either the Miller Analogies Test (MAT), a minimum score of 392 is required, or the Graduate Record Examination (GRE), a minimum combined score of 286 (verbal plus quantitative) is required, within the last five years; or have a master's degree from a regionally-accredited institution.

Applicants may be admitted conditionally for one term while test requirements are pending. Applicants may be admitted provisionally when a GPA or test score does not meet the minimum requirements at the discretion of the program director. All conditional admission requirements must be completed for full admission status and to register for subsequent sessions.

Program of Studies for Social Service and Attendance -- 12 hours

COUN 670 Interventions for Current Issues in School Counseling
   or
COUN 673 Counseling Children, Adolescents, and Parents
LS 675 Legal and Policy Issues
LS 691 The Attendance Director
LS 692 Capstone: School Social Services

Program Requirements for Social Service and Attendance

Every student must designate a practicing supervisor or attendance director who agrees to act as his/her mentor during the program. Field experiences are a required component of this program and are embedded in program classes.

A graduate certificate candidate in the program may receive no more than one grade of "C" in required coursework. In the event of a second grade of "C" or below, the student may be dismissed from the program.

Repeating a course for a higher grade does not negate the existence of the former grade. A student may be dismissed from the program upon earning a second grade of "C" or below, even if the student repeated a course and earned a higher grade.

Please insert in the text box below your change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Name of Certificate:
Credit Hours:
Type of Change: *(addition, deletion, change)*
Rationale:

Department: Leadership Studies
Name of Certificate: Social Service and Attendance
Credit Hours: 12
Type of Change: Change
Rationale:

Changing a plan of study course requirement from LS 693 School Law for Support Personnel to an existing program course that is used in our principal programs, LS 675 Legal and Policy Issues, to maximize student course enrollment.

Updating text in the "admission requirements" paragraph due to Graduate Admissions' changing the "link address" and Praxis updating the test number.

Text is being added to the catalog to explain existing program requirements.

Text is also being added to only allow one grade of "C" in this certification program because there are only four courses (12 hours) in this program.

Prepare **one** paper copy with all signatures and forward to the Graduate Council Chair. Additionally, send **one** identical ELECTRONIC COPY with all supporting documentation as an e-mail attachment by to the Graduate Council Chair for electronic distribution to the Graduate Council Curriculum Committee.

Guidelines for an AMD Proposal

Accelerated Master's Degree Programs may be developed between an undergraduate and graduate program in a single department, between two programs in a single school/college or between programs in two different schools/colleges. AMD programs enrich the opportunities of the best undergraduates at Marshall University, enabling them to earn a Bachelor's and Master's degree in much less time than it would take following the traditional path. AMD students do not double count credits. They can take up to 12 graduate credits to be applied to the master's degree in place of 12 undergraduate elective credits. They will earn the undergraduate degree with up to 12 fewer credit hours, depending on how many graduate hours they take.

Rationale: The proposal should identify the rationale or need for an AMD, and, if the undergraduate and graduate programs are in different departments, clarify how they are appropriate for the AMD.

Rationale:	An Accelerated Master's Degree in M.S. Sport Administration pathway will help retain qualified undergraduate students into our program. Enrichment of our current Master's program with talented and qualified students, who have strong academic background and boosting undergraduate student recruitment, as prospective student will see the chance toward two degrees in approximately five years and as a result, will join Marshall University.

Admission Requirements: The proposal should state whether admission requirements for the AMD differ from regular admission requirements (e.g. waive test scores).

Admission Requirements:	Students would be able to apply to an Accelerated Master's Degree in M.S. Sport Administration in their junior or senior year of the BA Sport Management in good standing with a minimum over-all grade point average of 3.3 and 3.3 in Sport Management courses. The GRE or GMAT requirement would be waived for admission into the program. All other admission requirement into the M.S. in Sport Administration would remain unchanged.

AMD Credits: The proposal may allow an undergraduate student to earn a maximum of 12 credits in approved graduate courses to be applied to the master's degree. These 12 credits take the place of 12 undergraduate electives. Please note the maximum allowed credits.

AMD Credits:	12 Credits

Curriculum: The proposal should show how a student can complete the Bachelor's degree by lowering the number of undergraduate credits (up to 12) with up to 12 graduate credits that will apply to the master's degree.

Curriculum:	Students enrolled in the Accelerated Master's Degree in M.S. Sport Administration (AMD-MSSA) program can substitute up to a maximum of 12 credit graduate courses toward their BA in Sport Management. Students in the AMD-MSSA program will enroll in 12 credit from 500-level and 600-level STHM graduate courses during the Senior year. Specifically, the MS in Sport Administration Courses for the senior year of the BS will include but not limited to the selection of the following courses: STHM 501 Ethics in Sport; STHM 516 Planning and Developing HPERD and Athletics Facilities; STHM 525 Sport in Film STHM 540 Women in Sport; STHM 552 Sport Performance Analysis; STHM 558 Sales and Promotion Management in Sport and Leisure Industry; STHM 652 Organizational Behavior of Sport and Leisure Industry; STHM 615 Legal Concern in PE and Athletics; STHM 643 Sport in the Social Process

Student Eligibility: AMD applicants must have a minimum over-all grade point average of 3.30 and 3.30 in the major. Programs may require a higher GPA. Please note your required GPA.

Student Eligibility:	3.3

Accelerated Master's Degree Proposal-Page 2

Please insert in the text box below your summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

AMD Proposal

Department:
Allowable credits:
Student eligibility requirements:
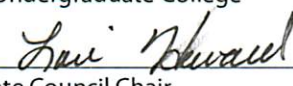
AMD Proposal
Department: School of Kinesiology - Sport Management
Allowable credits: 12 Credits
Student eligibility requirements: Students would be able to apply to an Accelerated Master's Degree in M.S. Sport Administration in their junior or senior year of the BA Sport Management in good standing with a minimum over-all grade point average of 3.3 and 3.3 in Sport Management courses. The GRE or GMAT requirement would be waived for admission into the program. All other admission requirement into the M.S. in Sport Administration would remain unchanged

---

Approvals
Signatures

Jennifer Mott	11/5/2019
Undergraduate Advisor	Date
Jennifer Mott	11/5/2019
Graduate Studies Director	Date
Michael Rovito	11-5-19
Dean, Undergraduate College	Date
Lori Howard	2-1-2020
Graduate Council Chair	Date

12 credit hours of undergraduate courses taken in the Senior year of the BA in Sport Management will be replace with 12 credit from the MS. Sport Administration Program. The following is an example of the curriculum requirement of the AMD of MS Sport Administration

Fall of Year 4 BA Sport Management

STHM 511 Ethics in Sport (3 Credit hours Restricted Electives)

STHM 643 Sport in the Social Process (3 Credit hours Restricted Electives)

Spring of Year 4 BA Sport Management

STHM 516 Planning and Developing HPERD and Athletics Facilities (3 Credit hours Restricted Electives)

STHM 540 Women in Sport (3 Credit hours Restricted Electives)

Year 1 MS Sport Administration

Fall

STHM 652 Organizational Behavior of Sport and Leisure Industry (3 Credit hours)

STHM 671 Research Methods in Sport Studies (3 Credit hours)

STHM 675 Marketing Management of Sport Industry (3 Credit hours)

PSY 517 Intermediate Behavioral Statistics OR Equivalent (3 Credit hours)

Year 1 MS Sport Administration

Spring

STHM 615 Legal Concern in PE and Athletics (3 Credit hours)

STHM 674 Sport Finance/Economics (3 Credit hours)

ESS 660 Internship (3 Credit hours)

Selected courses with the approval of advisor (3 Credit hours)

Request for Graduate Addition, Deletion, or Change of a Certificate

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**
NOTE: If proposing a new certificate, please read this first:
www.marshall.edu/graduate/graduatecouncil/certificatespolicy/certificatepolicy.pdf

College: COHP/LCOB

Dept/Division: NA

Contact Person: Nancy Lankton

Phone: 304-696-2656

Name of Certificate: Graduate Certificate in Nursing Informatics

Check action requested: ☐ Addition   ☐ Deletion   ☒ Change   *2-1-2020 LH*

Effective Term/Year   Fall 20 ☐   Spring 20 ☒20   Summer 20 ☒

Information on the following pages must be completed before signatures are obtained.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _Nancy K Lankton_ Date __12/3/19__

College Curriculum Committee Chair _____ Date _9 Dec 19_

College Dean _Avinandan Mukherjee_ Date _12/9/2019_

Graduate Council Chair _Lori Howard_ Date _2-1-2020_

Provost/VP Academic Affairs _____ Date _____

Presidential Approval _____ Date _____

Form updated 10/2011

Please provide a rationale for addition, deletion, change:

See attached.

Please describe any changes in curriculum:
List course number, title, credit hours. Note whether each course is required or optional. Enter NONE if not change.

NONE

1. **ADDITIONAL RSOURCE REQUIREMENTS:** If your program requires additional faculty, equipment or specialized materials to ADD or CHANGE this certificate, attach and estimate of the time and money required to secure these items.
   NOTE: Approval of this form does not imply approval for additional resources. Enter NONE if not applicable.

NONE

2. NON-BUSPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the request and any response received from them. Tneter NONE if not applicable.

NONE

Form updated 10/2011

3. **CURRENT CATALOG DESCRIPTION**
   Insert the Current Catalog Description and page number from the latest catalog for entries you would like to change. (May attach separate page if needed).

   See attached.

4. **Edits to the Current Description**
   Attach a PDF copy of the current catalog description prepared in MS WORD with strikethroughs to mark proposed deletions and use the highlight function to indicate proposed new text.

   No changes - just move the description to the Lewis College of Business right after HEALTH INFORMATICS, M.S. section.

5. **.New Catalog Description**
   Insert a "clean" copy of your proposed description, I.e., no strikethroughs or highlighting included. This should be what you are proposing for the new d3escription. (May attach a separate page if needed).

   No changes - just move the description to the Lewis College of Business right after HEALTH INFORMATICS, M.S. section.

Please insert in the text box below your change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings).

Department:

Change from College of Health Professions to Lewis College of Business (LCOB)

Name of Certificate:

Graduate Certificate in Nursing Analytics

Credit hours:

18 Credit hours

Type of change request:

Change in College offering the certificate program.

Rationale:

The COHP and the LCOB are submitting this change to move the Graduate Certificate in Nursing Analytics from the College of Health Professions (COHP) to the Lewis College of Business (LCOB). This change is necessary because Girmay Berhie, the Chairperson of the Health Informatics MS degree and the two graduate certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Murkherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole. The LCOB is teaching five out of six of the courses in the certificate program. It already has other health care-related programs and has numerous faculty with expertise in the area. The LCOB has helped facilitate a smooth transition of the health Informatics MS program during fall 2019.

Form updated 10/2011

Rationale for Request:

This certificate change form is to change the Graduate Certificate in Online Data Analytics in Health Care from the College of Health Profession (COHP) to the Lewis College of Business (LCOB).

This change is needed because Girmay Berhie, the Chairperson of the Health Informatics MS degree, including the two graduate certificate programs – the online data analytics in health care and the nursing informatics certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Avi Mukherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole, for the following reasons:

1. In Fall 2019, 69% (27 out of 39 total credit hours) of the courses in the Health Informatics MS degree programs are being taught by the LCOB.

2. The LCOB already has degree programs in fields related to Health Informatics. It has an undergraduate degree in Health Care Management, a MS degree in Health Care Administration, and a Doctor of Management Practice in Nurse Anesthesia (DMPNA). Its proposed DBA program will have a concentration in health care management. Additionally, the LCOB's MBA program has a concentration in health care administration.

3. The LCOB has numerous faculty with expertise in health informatics and related areas (see lists below). Dean Avi Mukherjee actively publishes in the health care area.

   Faculty teaching health care courses:
   - Dr. Alberto Coustasse, Full Professor
   - Dr. Doohee Lee, Full Professor
   - Dr. Dennis Emmett, Full Professor
   - Dr. Kent Willis, Assistant Professor

   Faculty teaching management information systems courses:
   - Dr. Rick Weible, Full Professor
   - Dr. Anil Gurung, Full Professor
   - Dr. Dale Shao, Full Professor

   Faculty teaching business analytics and legal environment courses:
   - Dr. Lanham, Assistant Professor
   - Dr. Subedi, Full Professor
   - Dr. Zhang, Assistant Professor
   - Dr. Fnu, Assistant Professor
   - Casey Baker JD, Assistant Professor
   - Olen York JD, Instructor

Faculty teaching health care related management and strategy courses in the DMPNA program:

- Dr. McInerney, Full Professor
- Dr. Emmitt, Full Professor
- Dr. Lee, Full professor
- Dr. McClure, Associate Professor
- Dr. Muslin, Associate Professor
- Dr. Sollosy, Associate Professor

4. The LCOB was a critical partner in the design, development, and introduction of the MS in Health Informatics program. Faculty from the LCOB designed and taught courses that originally accounted for 31% (12 out of 39) of the degree program.

5. In response to a request by Dean Michael Prewitt and Provost Jaime Taylor, the LCOB agreed to manage the MS in Health Informatics program starting in Fall 2019. This included recruiting individuals, providing advising support, collecting assessment documentation, and directing accreditation requirements for the program. The investment of LCOB in ensuring a smooth transition without additional resources will benefit the students, Colleges, and University over the long term. The LCOB has met with all students along with Dean Prewitt, and the students are excited about the transition.

6. CURRENT CATALOG DESCRIPTION

Graduate Certificate in Nursing Informatics

According to the American Nurse Association (ANA), nursing informatics is a specialty that integrates nursing science, computer science, and information science to manage and communicate data, information, knowledge, and wisdom in the nursing practice. The ultimate goal of Nursing Informatics is to improve patient health through information technology. Nursing Informatics strives to (1) enhance the productivity of nurses by utilizing information technology, (2) facilitate innovative solutions in healthcare, and (3) reduce costs through evidence-based decisions obtained from clinical data.

The Marshall University Nursing Informatics certificate is designed to enable nurses to evaluate and design new or modified information solutions, analyze data in order to improve nursing workflow and reduce errors, act as a liaison between nurses and technical engineers, develop strategies and policies involving information technology in nursing, and understand how information technology is used to ensure patient security and confidentiality.

Nursing informatics is for individuals that have passion for nursing and can see information technology as a tool to achieve improvement in the healthcare arena. The certificate is designed to complement existing nursing degrees and to suit the needs of students and professionals who want to specialize in the fast-expanding field of nursing information. Students who should apply for the certificate program would be individuals with a bachelor's in nursing.

In the HIMSS 2014 Nursing Informatics Workforce Survey, conducted by the Healthcare Information and Management Systems Society, the median salary reported for Nurse Informaticist was $93,000. The average salary reported was $100,717. Health informatics is a rapidly expanding career field. According to the American Medical Informatics Association (AMIA), around 70,000 specialists in this field will be needed within the next few years -including nursing Informaticist.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website. (Submit all materials to the Graduate Admissions Office.) Students must meet the following admission requirements:
• Each student must hold a B.S.N. degree from a program accredited by ACEN, CCNE, or an equivalent accrediting body.
• Cumulative Grade Point Average of 3. 0 on a 4.0 scale for all undergraduate coursework.
• Undergraduate coursework must include 3 semester credit hours of basic statistics and 3 semester credit hours of basic research with a grade of C or better. If a student plans to sit for the ANCC-informatics nursing credentialing, they must also:
• Hold a current, active RN license in a state or territory of the United States or hold the professional, legally recognized equivalent in another country.
• Have practiced the equivalent of 2 years full time as a registered nurse immediately prior to application.

Course Requirements: Graduate Certificate in Nursing Informatics
HP 605 Role of EHR & PHR (3 Credit Hours)
HP 615 Health Quality & Safety (3 Credit Hours)
HP 620 Legal Ethics for Health Care (3 Credit Hours)
HP 630 Research Methods and Data Analytics for Health Informatics (3 Credit Hours)

IS 535 Applied Health Care Databases (3 Credit Hours) OR IS 623 Database Management
HP 650 Practicum 200 hours Nursing Informatics (3 Credit Hours)

TOTAL CREDITS 18

Courses in the certificate can be also applied to a master's degree in health informatics.

Request for Graduate Addition, Deletion, or Change of a Certificate

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NOTE: If proposing a new certificate, please read this first:
www.marshall.edu/graduate/graduatecouncil/certificatespolicy/certificatepolicy.pdf

College: COHP/LCOB

Dept/Division: NA

Contact Person: Nancy Lankton

Phone: 304-696-2656

Name of Certificate: Graduate Certificate in Online Data Analytics in Health Care

Check action requested: ☐ Addition   ☐ Deletion   ☒ Change   2-1-2020
                                                                      LN

Effective Term/Year   Fall 20 ☐   ~~Spring 20 20~~   Summer 20 ☒

Information on the following pages must be completed before signatures are obtained.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head ___Nancy Lankton___ Date ___12/3/19___

College Curriculum Committee Chair _____ Date ___9 DEC 19___

College Dean ___Avinandan Mukherje___ Date ___12/9/2019___

Graduate Council Chair ___Luu Navaul___ Date ___2-1-2020___

Provost/VP Academic Affairs _____ Date _____

Presidential Approval _____ Date _____

Form updated 10/2011

Please provide a rationale for addition, deletion, change:

See attached.

Please describe any changes in curriculum:
List course number, title, credit hours. Note whether each course is required or optional. Enter NONE if not change.

NONE

1. **ADDITIONAL RSOURCE REQUIREMENTS:** If your program requires additional faculty, equipment or specialized materials to ADD or CHANGE this certificate, attach and estimate of the time and money required to secure these items.
NOTE: Approval of this form does not imply approval for additional resources. Enter NONE if not applicable.

NONE

2. NON-BUSPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the request and any response received from them. Tneter NONE if not applicable.

NONE

Form updated 10/2011

3. CURRENT CATALOG DESCRIPTION
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4. Edits to the Current Description
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No changes - just move the description to the Lewis College of Business right after HEALTH INFORMATICS, M.S. section.

5. .New Catalog Description
Insert a "clean" copy of your proposed description, I.e., no strikethroughs or highlighting included. This should be what you are proposing for the new d3escription. (May attach a separate page if needed).

No changes - just move the description to the Lewis College of Business right after HEALTH INFORMATICS, M.S. section.

Request for Graduate Addition, Deletion, or Change of a Certificate – Page 4

Please insert in the text box below your change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings).

Department:

Change from College of Health Professions to Lewis College of Business (LCOB)

Name of Certificate:

Graduate Certificate in Online Data Analytics in Health Care

Credit hours:

15 Credit hours

Type of change request:

Change in College offering the certificate program.

Rationale:

The COHP and the LCOB are submitting this change to move the Graduate Certificate in Online Data Analytics in Health Care from the College of Health Professions (COHP) to the Lewis College of Business (LCOB). This change is necessary because Girmay Berhie, the Chairperson of the Health Informatics MS degree and the two graduate certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Murkherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole. The LCOB is teaching three of the five courses in the certificate program. It already has other health care-related programs and has numerous faculty with expertise in the area. The LCOB has helped facilitate a smooth transition of the health Informatics MS program during fall 2019.

Form updated 10/2011

Rationale for Request:

This certificate change form is to change the Graduate Certificate in Online Data Analytics in Health Care from the College of Health Profession (COHP) to the Lewis College of Business (LCOB).

This change is needed because Girmay Berhie, the Chairperson of the Health Informatics MS degree, including the two graduate certificate programs – the online data analytics in health care and the nursing informatics certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Avi Mukherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole, for the following reasons:

1. In Fall 2019, 69% (27 out of 39 total credit hours) of the courses in the Health Informatics MS degree programs are being taught by the LCOB.

2. The LCOB already has degree programs in fields related to Health Informatics. It has an undergraduate degree in Health Care Management, a MS degree in Health Care Administration, and a Doctor of Management Practice in Nurse Anesthesia (DMPNA). Its proposed DBA program will have a concentration in health care management. Additionally, the LCOB's MBA program has a concentration in health care administration.

3. The LCOB has numerous faculty with expertise in health informatics and related areas (see lists below). Dean Avi Mukherjee actively publishes in the health care area.

   Faculty teaching health care courses:
   - Dr. Alberto Coustasse, Full Professor
   - Dr. Doohee Lee, Full Professor
   - Dr. Dennis Emmett, Full Professor
   - Dr. Kent Willis, Assistant Professor

   Faculty teaching management information systems courses:
   - Dr. Rick Weible, Full Professor
   - Dr. Anil Gurung, Full Professor
   - Dr. Dale Shao, Full Professor

   Faculty teaching business analytics and legal environment courses:
   - Dr. Lanham, Assistant Professor
   - Dr. Subedi, Full Professor
   - Dr. Zhang, Assistant Professor
   - Dr. Fnu, Assistant Professor
   - Casey Baker JD, Assistant Professor
   - Olen York JD, Instructor

Faculty teaching health care related management and strategy courses in the DMPNA program:

- Dr. McInerney, Full Professor
- Dr. Emmitt, Full Professor
- Dr. Lee, Full professor
- Dr. McClure, Associate Professor
- Dr. Muslin, Associate Professor
- Dr. Sollosy, Associate Professor

4. The LCOB was a critical partner in the design, development, and introduction of the MS in Health Informatics program. Faculty from the LCOB designed and taught courses that originally accounted for 31% (12 out of 39) of the degree program.

5. In response to a request by Dean Michael Prewitt and Provost Jaime Taylor, the LCOB agreed to manage the MS in Health Informatics program starting in Fall 2019. This included recruiting individuals, providing advising support, collecting assessment documentation, and directing accreditation requirements for the program. The investment of LCOB in ensuring a smooth transition without additional resources will benefit the students, Colleges, and University over the long term. The LCOB has met with all students along with Dean Prewitt, and the students are excited about the transition.

6. CURRENT CATALOG DESCRIPTION

Graduate Certificate in Online Data Analytics in Health Care

Data analytics is the process of acquiring, extracting, integrating, transforming, and modeling data with the goal of deriving useful information. Its application is growing rapidly in health care organizations across the globe. Data Analytics in Health Care enables the systematic use of data to drive fact-based decision-making to assist in health care planning, management and measurement. However, many organizations lack the knowledge to effectively utilize data analytics. As a result, according to a survey published by Journal of AHIMA (2015), healthcare big data analytics and informatics skills will be among the most sought-after competencies for health information management (HIM) professionals in the next few years.

The Marshall University Online Data Analytics in Health Care certificate is designed to provide health care professionals with the skills required to compete for data analysis jobs amid rising demand in the health care industry. The certificate program will explore the intricacies of data analytics and expose students to various topics related to data processing, integration, analysis, and visualization. Individuals who complete this program will have a solid framework of data analytics methodologies accompanied by exposure to the tools used for knowledge discovery pertinent to health care.

The certificate is intended for students who are interested in transforming the massive data being produced in the health care industry into meaningful information. They are the individuals who want to determine what decisions or actions should be taken to generate value from the healthcare data produced every day.

Admission Requirements
Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for admission. (Submit all materials to the Graduate Admissions Office.) Students must have an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate university work, and ORE scores from ORE test taken within the past five years.

Program Requirements
Students must take the following courses:
HP 605 EHR & PHR (3 Credit Hours)
HP 610 Health Care Statistics (3 Credit Hours)
HP 630 Research Methods and Data Analytics for Health Informatics (3 Credit Hours)
IS 535 Applied Health Care Databases (3 Credit Hours) OR IS 623 Database Management
IS 545 Health Care Data Analytics and Visualization (3 Credit Hours)

Courses in this certificate program can also be applied to a master's degree in health informatics.

Request for Graduate Non-Curricular Changes

PLEASE USE THIS FORM FOR ALL NON-CURRICULAR CHANGE REQUESTS (changes in admission requirements or requirements for graduation, changes in existing or new policies/procedures, changes in program descriptions in catalog, general language changes in catalog).

SIGNATURES may not be required, depending on the nature of the request and from where it originates. Consult Graduate Council Chair.

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair. 2. E-mail one identical PDF copy to the Graduate Council Chair. 3. The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.

College: _College of Health Professions and Lewis College of Business_____

Contact Person: _Nancy Lankton_____ Phone: 6-2656_____

Rationale for Request:

See attached.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached. NOTE: all requests may not require all signatures.

Department/Division Chair __*Nancy Irwin*_____ Date __12/5/19_____

Registrar __*signature*_____ Date _12/6/19_____

College Curriculum Committee Chair _____ Date _9 DEC 19_____
(or Dean if no college curriculum committee)

Graduate Council Chair __*Lori Howard*_____ Date _2-1-2020_____

NOTE: please complete information required on the following pages before obtaining signatures above.

Form updated 1/2017

Request for Graduate Non-Curricular Changes – Page 2

1. Current Catalog Description (if applicable): Please insert the catalog description from the current catalog for entries you would like to change.

See attached.

Form updated 1/2017

2. Edits to current description: Attach or insert a PDF copy of the current catalog description prepared in MS WORD with strikethroughs to mark proposed deletions and use the highlight function to indicate proposed new text.

See attached.
No edits needed – just move the description to the Lewis College of Business sight after the HEALTH INFORMATICS, M.S. section.

3. New Catalog Description: Provide a "clean" copy of your proposed description without strikethroughs or highlighting. This should be what you are proposing for the new description.

See attached.
No edits needed – just move the description to the Lewis College of Business right after the HEALTH INFORMATICS, M.S. section.

Request for Graduate Non-Curricular Changes – Page 5

Please insert below your proposed change information for the Graduate Council agenda.

Type of change request:

Change in College offering the certificate program.

Department:

Change from College of Health Professions to Lewis College of Business

Degree program:

Graduate Certificate in Nursing Analytics

Effective date (fall/spring/summer, year):

~~Fall 2019~~ Summer 2020 *LH* 1-31-2020

Rationale for Request:

This non-curricular change form is to change the Graduate Certificate in Nursing Analytics certificate program from the College of Health Profession (COHP) to the Lewis College of Business (LCOB).

This change is needed because Girmay Berhie, the Chairperson of the Health Informatics MS degree, including the two graduate certificate programs – the online data analytics in health care and the nursing informatics certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Avi Mukherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole, for the following reasons:

1. In Fall 2019, 69% (27 out of 39 total credit hours) of the courses in the Health Informatics MS degree programs are being taught by the LCOB.

2. The LCOB already has degree programs in fields related to Health Informatics. It has an undergraduate degree in Health Care Management, a MS degree in Health Care Administration, and a Doctor of Management Practice in Nurse Anesthesia (DMPNA). Its proposed DBA program will have a concentration in health care management. Additionally, the LCOB's MBA program has a concentration in health care administration.

3. The LCOB has numerous faculty with expertise in health informatics and related areas (see lists below). Dean Avi Mukherjee actively publishes in the health care area.

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4. The LCOB was a critical partner in the design, development, and introduction of the MS in Health Informatics program. Faculty from the LCOB designed and taught courses that originally accounted for 31% (12 out of 39) of the degree program.

5. In response to a request by Dean Michael Prewitt and Provost Jaime Taylor, the LCOB agreed to manage the MS in Health Informatics program starting in Fall 2019. This included recruiting individuals, providing advising support, collecting assessment documentation, and directing accreditation requirements for the program. The investment of LCOB in ensuring a smooth transition without additional resources will benefit the students, Colleges, and University over the long term. The LCOB has met with all students along with Dean Prewitt, and the students are excited about the transition.

1. Current Catalog Description

Graduate Certificate in Nursing Informatics

According to the American Nurse Association (ANA), nursing informatics is a specialty that integrates nursing science, computer science, and information science to manage and communicate data, information, knowledge, and wisdom in the nursing practice. The ultimate goal of Nursing Informatics is to improve patient health through information technology. Nursing Informatics strives to (1) enhance the productivity of nurses by utilizing information technology, (2) facilitate innovative solutions in healthcare, and (3) reduce costs through evidence-based decisions obtained from clinical data.

The Marshall University Nursing Informatics certificate is designed to enable nurses to evaluate and design new or modified information solutions, analyze data in order to improve nursing workflow and reduce errors, act as a liaison between nurses and technical engineers, develop strategies and policies involving information technology in nursing, and understand how information technology is used to ensure patient security and confidentiality.

Nursing informatics is for individuals that have passion for nursing and can see information technology as a tool to achieve improvement in the healthcare arena. The certificate is designed to complement existing nursing degrees and to suit the needs of students and professionals who want to specialize in the fast-expanding field of nursing information. Students who should apply for the certificate program would be individuals with a bachelor's in nursing.

In the HIMSS 2014 Nursing Informatics Workforce Survey, conducted by the Healthcare Information and Management Systems Society, the median salary reported for Nurse Informaticist was $93,000. The average salary reported was $100,717. Health informatics is a rapidly expanding career field. According to the American Medical Informatics Association (AMIA), around 70,000 specialists in this field will be needed within the next few years -including nursing Informaticist.

Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website. (Submit all materials to the Graduate Admissions Office.) Students must meet the following admission requirements:
• Each student must hold a B.S.N. degree from a program accredited by ACEN, CCNE, or an equivalent accrediting body.
• Cumulative Grade Point Average of 3. 0 on a 4.0 scale for all undergraduate coursework.
• Undergraduate coursework must include 3 semester credit hours of basic statistics and 3 semester credit hours of basic research with a grade of C or better. If a student plans to sit for the ANCC-informatics nursing credentialing, they must also:
• Hold a current, active RN license in a state or territory of the United States or hold the professional, legally recognized equivalent in another country.
• Have practiced the equivalent of 2 years full time as a registered nurse immediately prior to application.

Course Requirements: Graduate Certificate in Nursing Informatics
 HP 605 Role of EHR & PHR (3 Credit Hours)
HP 615 Health Quality & Safety (3 Credit Hours)
HP 620 Legal Ethics for Health Care (3 Credit Hours)
HP 630 Research Methods and Data Analytics for Health Informatics (3 Credit Hours)

IS 535 Applied Health Care Databases (3 Credit Hours) OR IS 623 Database Management
HP 650 Practicum 200 hours Nursing Informatics (3 Credit Hours)

TOTAL CREDITS 18

Courses in the certificate can be also applied to a master's degree in health informatics.

2. Edits to the Current Description
(No edits needed - just move the description to the Lewis College of Business right after the HEALTH INFORMATICS, M.S. section.)

Graduate Certificate in Nursing Informatics

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TOTAL CREDITS 18

Courses in the certificate can be also applied to a master's degree in health informatics.

3. **New Catalog Description**

(No edits needed - just move the description to the Lewis College of Business right after the HEALTH INFORMATICS, M.S. section.)

Graduate Certificate in Nursing Informatics
According to the American Nurse Association (ANA), nursing informatics is a specialty that integrates nursing science, computer science, and information science to manage and communicate data, information, knowledge, and wisdom in the nursing practice. The ultimate goal of Nursing Informatics is to improve patient health through information technology. Nursing Informatics strives to (1) enhance the productivity of nurses by utilizing information technology, (2) facilitate innovative solutions in healthcare, and (3) reduce costs through evidence-based decisions obtained from clinical data.

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Request for Graduate Non-Curricular Changes

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1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair. 2. E-mail one identical PDF copy to the Graduate Council Chair. 3. The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.

College: _College of Health Professions and Lewis College of Business_____

Contact Person: _Nancy Lankton_____ Phone: 6-2656_____

Rationale for Request:

See attached.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached. NOTE: all requests may not require all signatures.

Department/Division Chair _____*Nancy K Lankton*_____ Date _12/5/19_____

Registrar ___*[signature]*_____ Date _12/6/19___

College Curriculum Committee Chair ___*[signature]*_____ Date _9 DEC 19_____
(or Dean if no college curriculum committee)

Graduate Council Chair ___*Lori Howard*_____ Date _2-1-2020_____

NOTE: please complete information required on the following pages before obtaining signatures above.

Form updated 1/2017

1. Current Catalog Description (if applicable): Please insert the catalog description from the current catalog for entries you would like to change.

See attached.

Request for Graduate Non-Curricular Changes – Page 3

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3. New Catalog Description: Provide a "clean" copy of your proposed description without strikethroughs or highlighting. This should be what you are proposing for the new description.

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No edits needed – just move the description to the Lewis College of Business right after the HEALTH INFORMATICS, M.S. section.

Please insert below your proposed change information for the Graduate Council agenda.

Type of change request:

Change in College offering the certificate program.

Department:

Change from College of Health Professions to Lewis College of Business

Degree program:

Graduate Certificate in Online Data Analytics in Health Care

Effective date (fall/spring/summer, year):

~~Fall 2019~~
Summer 2020   *LH*
1-31-2020

Rationale for Request:

This non-curricular change form is to change the Graduate Certificate in Online Data Analytics in Health Care certificate program from the College of Health Profession (COHP) to the Lewis College of Business (LCOB).

This change is needed because Girmay Berhie, the Chairperson of the Health Informatics MS degree, including the two graduate certificate programs – the online data analytics in health care and the nursing informatics certificate programs, has resigned. Because of problems in the long-term sustainability of staffing this program, Dean Prewitt and Dean Avi Mukherjee agreed that the LCOB might be better equipped, in terms of faculty and expertise, to run the program. This change is appropriate and in the best interests of each College, and the University as a whole, for the following reasons:

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1. Current Catalog Description

Graduate Certificate in Online Data Analytics in Health Care

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The certificate is intended for students who are interested in transforming the massive data being produced in the health care industry into meaningful information. They are the individuals who want to determine what decisions or actions should be taken to generate value from the healthcare data produced every day.

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HP 630 Research Methods and Data Analytics for Health Informatics (3 Credit Hours)
IS 535 Applied Health Care Databases (3 Credit Hours) OR IS 623 Database Management
IS 545 Health Care Data Analytics and Visualization (3 Credit Hours)

Courses in this certificate program can also be applied to a master's degree in health informatics.

2. **Edits to the Current Description**
(No edits needed - just move the description to the Lewis College of Business right after the HEALTH INFORMATICS, M.S. section.)

Graduate Certificate in Online Data Analytics in Health Care

Data analytics is the process of acquiring, extracting, integrating, transforming, and modeling data with the goal of deriving useful information. Its application is growing rapidly in health care organizations across the globe. Data Analytics in Health Care enables the systematic use of data to drive fact-based decision-making to assist in health care planning, management and measurement. However, many organizations lack the knowledge to effectively utilize data analytics. As a result, according to a survey published by Journal of AHIMA (2015), healthcare big data analytics and informatics skills will be among the most sought-after competencies for health information management (HIM) professionals in the next few years.

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Courses in this certificate program can also be applied to a master's degree in health informatics.

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The certificate is intended for students who are interested in transforming the massive data being produced in the health care industry into meaningful information. They are the individuals who want to determine what decisions or actions should be taken to generate value from the healthcare data produced every day.

Admission Requirements
Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at www.marshall.edu/graduate/admissions/how-to-apply-for admission. (Submit all materials to the Graduate Admissions Office.) Students must have an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate university work, and ORE scores from ORE test taken within the past five years.

Program Requirements
Students must take the following courses:
HP 605 EHR & PHR (3 Credit Hours)
HP 610 Health Care Statistics (3 Credit Hours)
HP 630 Research Methods and Data Analytics for Health Informatics (3 Credit Hours)
IS 535 Applied Health Care Databases (3 Credit Hours) OR IS 623 Database Management
IS 545 Health Care Data Analytics and Visualization (3 Credit Hours)

Courses in this certificate program can also be applied to a master's degree in health informatics.

Request for Graduate Non-Curricular Changes

PLEASE USE THIS FORM FOR ALL NON-CURRICULAR CHANGE REQUESTS (changes in admission requirements or requirements for graduation, changes in existing or new policies/procedures, changes in program descriptions in catalog, general language changes in catalog).

SIGNATURES may not be required, depending on the nature of the request and from where it originates. Consult Graduate Council Chair.

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: **Business**   Dept/Division: **Management**

Contact Person: **Dr. Margie McInerney**   Phone: **304-696-2675**

Rationale for Request:

So that DNAP applicants are not required to submit transcripts from schools attended to be considered for admission. Most of these students attend multiple Universities/Community Colleges, so having to submit all transcripts has caused delays in their admission.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.
NOTE: all requests may not require all signatures.

Department/Division Chair _Margie McInerney_____ Date _11/19/19_____

Registrar _____ Date _11/20/19_

College Curriculum Committee Chair _____ Date _12/4/19_
(or Dean if no college curriculum committee)

Graduate Council Chair _____ Date _2-1-2020_

NOTE: please complete information required on the following pages before obtaining signatures above.

1. **Current Catalog Description (if applicable):** Please insert the catalog description from the current catalog for entries you would like to change.

Admission Requirements
Full Admission
All applicants must meet the following criteria. The program does not offer conditional or provisional admission.
1. Graduate from an approved baccalaureate or higher degree generic program in nursing or graduate from an approved associate degree with an appropriate baccalaureate degree.
2. Minimum overall undergraduate grade point average of 3.0.

Admission Requirements
Full Admission
All applicants must meet the following criteria. The program does not offer conditional or provisional admission.
1. Graduate from an approved baccalaureate or higher degree generic program in nursing or graduate from an approved associate degree with an appropriate baccalaureate degree.
2. Minimum ~~overall undergraduate grade point average of 3.0~~ baccalaureate GPA of 3.0 on a 4.0 scale.

3. **New Catalog Description**: Provide a "clean" copy of your proposed description without strikethroughs or highlighting. This should be what you are proposing for the new description.

Admission Requirements
Full Admission
All applicants must meet the following criteria. The program does not offer conditional or provisional admission.
1. Graduate from an approved baccalaureate or higher degree generic program in nursing or graduate from an approved associate degree with an appropriate baccalaureate degree.
2. Minimum baccalaureate GPA of 3.0 on a 4.0 scale will be verified by reviewing the transcript of the degree-granting institution.

Request for Graduate Non-Curricular Changes – Page 5

Please insert below your proposed change information for the Graduate Council agenda.

Type of change request: Non-Curricular Admission change

Department: Business

Degree program: DNAP

Effective date (fall/spring/summer, year): 2020 _LH_ 2-1-2020

Request for Graduate Non-Curricular Changes

PLEASE USE THIS FORM FOR ALL NON-CURRICULAR CHANGE REQUESTS (changes in admission requirements or requirements for graduation, changes in existing or new policies/procedures, changes in program descriptions in catalog, general language changes in catalog).

SIGNATURES may not be required, depending on the nature of the request and from where it originates. Consult Graduate Council Chair.

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: **Business**   Dept/Division: **Management**

Contact Person: **Dr. Margie McInerney**   Phone: **304-696-2675**

Rationale for Request:

So that DNAP applicants are not required to submit transcripts from schools attended to be considered for admission. Most of these students attend multiple Universities/Community Colleges, so having to submit all transcripts has caused delays in their admission.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.
NOTE: all requests may not require all signatures.

Department/Division Chair _*Margie McInerney*_ Date _11/19/19_

Registrar _____ Date _11/20/19_

College Curriculum Committee Chair _____ Date _12/4/19_
(or Dean if no college curriculum committee)

Graduate Council Chair _____ Date _____

NOTE: please complete information required on the following pages before obtaining signatures above.

Form updated 1/2017

1. **Current Catalog Description (if applicable)**: Please insert the catalog description from the current catalog for entries you would like to change.

Admission Requirements
Full Admission
All applicants must meet the following criteria. The program does not offer conditional or provisional admission.
1. Graduate from an approved baccalaureate or higher degree generic program in nursing or graduate from an approved associate degree with an appropriate baccalaureate degree.
2. Minimum overall undergraduate grade point average of 3.0.

Admission Requirements
Full Admission
All applicants must meet the following criteria. The program does not offer conditional or provisional admission.
1. Graduate from an approved baccalaureate or higher degree generic program in nursing or graduate from an approved associate degree with an appropriate baccalaureate degree.
2. Minimum ~~overall undergraduate grade point average of 3.0~~ baccalaureate GPA of 3.0 on a 4.0 scale.

3. **New Catalog Description**: Provide a "clean" copy of your proposed description without strikethroughs or highlighting. This should be what you are proposing for the new description.

Admission Requirements
Full Admission
All applicants must meet the following criteria. The program does not offer conditional or provisional admission.
1. Graduate from an approved baccalaureate or higher degree generic program in nursing or graduate from an approved associate degree with an appropriate baccalaureate degree.
2. Minimum baccalaureate GPA of 3.0 on a 4.0 scale.

Request for Graduate Non-Curricular Changes – Page 5

Please insert below your proposed change information for the Graduate Council agenda.

Type of change request: Non-Curricular Admission change

Department: Business

Degree program: DNAP

Effective date (fall/spring/summer, year):

Request for Graduate Course Change

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: Pharmacy   Dept/Division: Pharmaceutical Scie   Current Alpha Designator/Number: MSPS531 (in catalog)

Contact Person: Eric Blough   Phone: x7394

CURRENT COURSE DATA:

Course Title: MSPS531

Alpha Designator/Number: | M | S | P | S | 5 | 3 | 1 | | |

Title Abbreviation: | P | h | a | r | m | | R | e | g | . | | A | f | f | a | i | r | s | | | | | | | |

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1. Complete this **five** page form in its entirety and route through the departments/committees below for changes to a course involving: course title, alpha designator, course number, course content, credit hours, or catalog description.
2. If this change will affect other departments that require this course, please send a memo to the affected department and include it with this packet, as well as the response received from the affected department.
3. If the changes made to this course will make the course similar in title or content to another department's courses, please send a memo to the affected department and include it with this packet as well as the response received from the affected department.
4. List courses, if any, that will be deleted because of this change (*must submit course deletion form*).
5. If the faculty requirements and/or equipment need to be changed upon approval of this proposal, attach a written estimate of additional needs.

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Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _(signature)_	Date	11/19/19
Registrar _(signature)_	Date	11/20/19
College Curriculum Chair _(signature)_	Date	11/19/19
Graduate Council Chair _(signature)_	Date	2-1-2020

Form updated 10/2011   Page 1 of 5

College: Phamacy   Department/Division: Pharmaceutical Sciences   Alpha Designator/Number: MSPS531

Provide complete information regarding the course change for each topic listed below.

Change in CATALOG TITLE: ☐ YES   ☒ NO

From [ ] (limited to 30 characters and spaces)

To [ ]

If Yes, Rationale

Change in COURSE ALPHA DESIGNATOR:

From: [ ][ ][ ][ ]   To [ ][ ][ ][ ]   ☐ YES   ☒ NO

If Yes, Rationale

Change in COURSE NUMBER: ☒ YES   ☐ NO

From: [5][3][1][ ]   To: [5][3][2][ ]

If Yes, Rationale | The graduate catalog is in error. The course approved by the graduate council was MSPS532. This course is listed in the catalog as MSPS531 (Pg. 239). Request ability to change course number listed on Pg. 239 is the same as the approved course number MSPS532 (Pg. 297) ▪

Change in COURSE GRADING

From ☐ Grade To ☐ Credit/No Credit

Rationale

Change in CATALOG DESCRIPTION: ☐ YES   ☒ NO   IF YES, fill in below:

From

To

If Yes Rationale

Change in COURSE CREDIT HOURS: ☐ YES ☒ NO   If YES, fill in below:

NOTE: If credit hours increase/decrease, please provide documentation that specifies the adjusted work requirements.

From

To

Change in COURSE CONTENT: ☐ YES ☒ NO

From

To

Rationale

College: Pharmacy

Department: Pharmaceutical Sciences

Course Number/Title MSPS532

1. REQUIRED COURSE: If this course is required by another department(s), identify it/them by name and attach the written notification you sent to them announcing to them the proposed change and any response received. Enter NOT APPLICABLE if not applicable.

> Not applicable.

2. COURSE DELETION: List any courses that will be deleted because of this change. A *Course Deletion* form is also required. Enter NOT APPLICABLE if not applicable.

> Not applicable.

3. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials as a result of this change, attach an estimate of the time and cost etc. required to secure these items. (NOTE: approval of this form does not imply approval for additional resources. Enter NOT APPLICABLE if not applicable.

> Not applicable.

Please insert in the text box below your course change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings) based on the appropriate change:

COURSE DESCRIPTION CHANGE
Department:
Course Number and Title:
Rationale:
Course Description (old)
Course Description: (new)
Catalog Description:

COURSE NUMBER CHANGE
Department:
Current Course Number/Title:
New Course Number:
Rationale:
Catalog Description:
Credit hours:

COURSE TITLE CHANGE
Department:
Current Course Number/Title:
New Course Title:
Rationale:
Catalog Description:

The request seeks approve to correct a course number error in the graduate catalog. The course number listed on Pg. 239 of the graduate catalog should be changed from MSPS531 to its already approved course number- MSPS532. There is no change in the course or its expectations. Simply want to correct the numbering error.

Request for Graduate Course Deletion

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one PDF copy (without signatures), to the Graduate Council Chair. If attachments included, merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and signed hard copy.**
4. Additionally, attach a copy of your written notification and any response(s) regarding this course deletion to other Departments/Divisions which advise students to enroll in this course as a prerequisite, co-requisite, or as an approved elective.

College | Pharmacy

Dept/Div. | Pharmaceutical Sciences

Contact Person | Eric Blough

Phone | x7394

Current Course Number and Title | MSPS556

Rationale for Course Deletion | Course has never been taught. No longer needed. Instructional needs now covered by PHAR521 and MSPS512.

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Final term and year this course is to be offered: Fall 20 ~~18~~ 2 [LH]   Spring 20 ☐   Summer 20 ☒ LH 2-1-2020

Course being ADDED in place of this DELETION. NOTE: A course ADDITION request form is also required.

Course Number and Title | PHAR521 and MSPS512   Credit Hrs. | 3

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _____   Date 11/19/19

Registrar _____ 5/20/0   Date 11/20/19

College Curriculum Chair _____   Date 11/19/19

Graduate Council Chair _____   Date 2-1-2020

Request for Graduate Course Deletion-Page 2

Please insert in the text box below your course deletion summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Rationale for deletion:
Final Term Offered:
Courses added *(if any)*:

Department: Pharmaceutical Sciences
Course Number and Title: MSPS556 Biochemistry
Rationale for deletion: Course has never been taught. Instructional needs now covered by PHAR521 and MSPS512.
Final Term Offered: Fall 2019
Courses added (if any): PHAR521 and MSPS512 (both courses approved, offered, and in graduate catalog)

Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: Pharmacy   Dept/Division: Pharmaceutical Scie   Alpha Designator/Number: MSPS586   ⦿ Graded   ○ CR/NC

Contact Person: Eric Blough   Phone: x7394

NEW COURSE DATA:

New Course Title: Special Topics

Alpha Designator/Number: | M | S | P | S | | 5 | 8 | 1 | |

Title Abbreviation: | S | p | e | c | i | a | l | | T | o | p | i | c | s | | | | | | | | | | |

(Limit of 25 characters and spaces)

Course Catalog Description: (Limit of 30 words)

Special Topics

Co-requisite(s): None   First Term to be Offered: Fall 2020

Prerequisite(s): None   Credit Hours: 1-3

Course(s) being deleted in place of this addition (*must submit course deletion form*): None

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _____ Date 11/19/19

Registrar _____ 5/20/16 _____ Date 11/20, '19

College Curriculum Chair _____ Date 11/19/19

Graduate Council Chair _____ Date NOV 20 2019 1:28 PM   2-1-2020

College: Pharmacy   Department/Division: Pharm. Sciences   Alpha Designator/Number: MSPS699

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

Any faculty who has graduate faculty status and has a MS student in their laboratory

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "**Not Applicable**" if not applicable.

Not Applicable

3. REQUIRED COURSE: If this course will be required by another deparment(s), identify it/them by name. Enter "**Not Applicable**" if not applicable.

Not Applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "**Not Applicable**" if not applicable.

Not Applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "**Not Applicable**" if not applicable.

Not Applicable

6. COURSE OBJECTIVES: (May be submitted as a separate document)

Student will explore in depth a specific aspect of a discipline or professional field. Written objectives of each special topics course, approved by the chair and dean, will be maintained in departmental files.

7. COURSE OUTLINE   (May be submitted as a separate document)

Special Topics are experimental courses that may be offered twice by a given department with no prior committee approval. Such courses may satisfy university, college or department requirements toward a given degree and may carry specific requisites.

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

Not applicable

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Lecture, readings, laboratory, one-on-one meetings

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Evaluation of progress towards completion of research and writing.

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Not applicable.

12. PROVIDE COMPLETE BIBLIOGRAPHY   (May be submitted as a separate document)

Not applicable.

Request for Graduate Course Addition - Page 5

Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Pharmaceutical Science and Research
Course Number and Title: MSPS581 Special Topics
Catalog Description: Prerequisites: Full admission to MSPS program.
First Term Offered: Fall 2020
Credit Hours: 1-3

Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: Pharmacy   Dept/Division: Pharmaceutical Scie   Alpha Designator/Number: MSPS586   ⦿ Graded   ○ CR/NC

Contact Person: Eric Blough   Phone: x7394

NEW COURSE DATA:

New Course Title: Independent study

Alpha Designator/Number: | M | S | P | S | | 5 | 8 | 5 | |

Title Abbreviation: | I | n | d | e | p | e | n | d | e | n | t | | S | t | u | d | y | | | | | | | | |

(Limit of 25 characters and spaces)
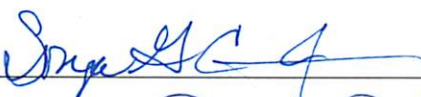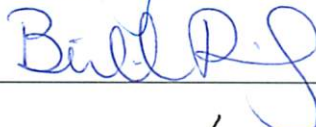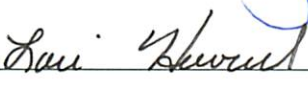
Course Catalog Description: Independent study
(Limit of 30 words)

Co-requisite(s): None   First Term to be Offered: Fall 2020

Prerequisite(s): None   Credit Hours: 1-3

Course(s) being deleted in place of this addition (*must submit course deletion form*):   None

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _(signature)_	Date	11/19/19
Registrar _(signature)_ 512016	Date	11/20/19
College Curriculum Chair _(signature)_	Date	11/19/19
Graduate Council Chair _(signature)_	Date	2-1-2020

Form updated 10/2011

NOV 20 2019 AM10:49

College: Pharmacy   Department/Division: Pharm. Sciences   Alpha Designator/Number: MSPS699

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

 Any faculty who has graduate faculty status and has a MS student in their laboratory

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter **"Not Applicable"** if not applicable.

 Not Applicable

3. REQUIRED COURSE: If this course will be required by another deparment(s), identify it/them by name. Enter **"Not Applicable"** if not applicable.

 Not Applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter **"Not Applicable"** if not applicable.

 Not Applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter **"Not Applicable"** if not applicable.
 Not Applicable

6. COURSE OBJECTIVES: (May be submitted as a separate document)

Student will explore in depth a specific aspect of a discipline or professional field. Written objectives of each independent course, approved by the chair and dean, will be maintained in departmental files.

7. COURSE OUTLINE (May be submitted as a separate document)

Student research project, under guidance of the faculty advisor.

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

Not applicable

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Lecture, readings, laboratory, one-on-one meetings

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Evaluation of progress towards completion of research and writing.

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Not applicable.

12. PROVIDE COMPLETE BIBLIOGRAPHY   (May be submitted as a separate document)

Not applicable.

Request for Graduate Course Addition - Page 5

Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Pharmaceutical Science and Research
Course Number and Title: MSPS585 Independent Study
Catalog Description: Prerequisites: Full admission to the MSPS program
First Term Offered: Fall 2020
Credit Hours: 1-3

Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: Pharmacy   Dept/Division: Pharmaceutical Scie   Alpha Designator/Number: MSPS632   ⦿ Graded   ○ CR/NC

Contact Person: Eric Blough   Phone: x7394

NEW COURSE DATA:

New Course Title: Product Development by Quality by Design

Alpha Designator/Number: | M | S | P | S | | 6 | 3 | 2 | |

Title Abbreviation: | P | r | o | d | | D | e | v | | b | y | | Q | u | a | l | i | t | y | | D | e | s | | |

(Limit of 25 characters and spaces)

Course Catalog Description: (Limit of 30 words)

Product Development by Quality by Design

Co-requisite(s): None   First Term to be Offered: Fall 2020

Prerequisite(s): None   Credit Hours: 3

Course(s) being deleted in place of this addition (*must submit course deletion form*): None

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

NOV 20 2019 PM 1:27

Dept. Chair/Division Head	_signature_	Date	11/19/19
Registrar	_signature_ 5/20/0	Date	11/20/19
College Curriculum Chair	_signature_	Date	11/19/19
Graduate Council Chair	_signature_	Date	2-1-2020

College: Pharmacy   Department/Division: Pharm. Sciences   Alpha Designator/Number: MSPS632

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

Cynthia Jones, PhD, Ashan Akbar, PhD

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "**Not Applicable**" if not applicable.

Not Applicable

3. REQUIRED COURSE: If this course will be required by another deparment(s), identify it/them by name. Enter "**Not Applicable**" if not applicable.

Not Applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "**Not Applicable**" if not applicable.

Not Applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "**Not Applicable**" if not applicable.

Not Applicable

6. COURSE OBJECTIVES: (May be submitted as a separate document)

1. Understanding the origins and need for QbD for pharmaceutical products, and the objectives for current QbD practices
2. Understanding the overall logic and flow of the QbD development process, including the use and application of the various tools applied

7. COURSE OUTLINE   (May be submitted as a separate document)

Please see the attached syllabus.

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

1. Quality by Design for Biopharmaceutical Drug Product Development. AAPS Advances in Pharmaceutical Sciences, Volume 18. Editors: Feroz JameelSusan HershensonMansoor A. KhanSheryl Martin-Moe. Springer Publishing, 2019.

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Lecture, readings, problems

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Mid-term and final examinations.

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Not applicable.

12. PROVIDE COMPLETE BIBLIOGRAPHY   (May be submitted as a separate document)

1. Quality by Design for Biopharmaceutical Drug Product Development: AAPS Advances in Pharmaceutical Sciences, Volume 18. Editors: Feroz JameelSusan HershensonMansoor A. KhanSheryl Martin-Moe. Springer Publishing, 2019.

Request for Graduate Course Addition - Page 5

Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Pharmaceutical Science and Research
Course Number and Title: MSPS632 Prod. Develop. by Quality by Design
Catalog Description: Prerequisites: Full admission to the MSPS program
First Term Offered: Spring 2021
Credit Hours: 3

MARSHALL UNIVERSITY

www.marshall.edu

School of Pharmacy

This syllabus is not to be construed as a contract with the student and is subject to change.

The School of Pharmacy reserves the right to change the course syllabus. *The School should notify the students through the course notification system or by an email preferably through the Blackboard system.*

Course meeting days and time	TBD
Location	TBD
Team Leader / Instructor	Cynthia B. Jones, Ph.D.
Office	CEB 228A
Phone	(304)696-7363
Email	Jonescy@marshall.edu
Office hours	TBA

Student: If the instructor accepts appointments, then please email the instructor for availability. The student can expect the instructor to respond to e-mails and phone messages within 72 hours.

Course Description:

This course gives an overview concepts of and approaches to pharmaceutical product Quality by Design (QbD). Topics covered definitions and scope of key elements of QbD; molecular design of drug product formulations; approaches and applications of QbD for liquid formulations; application of QbD principles for lyophilized formulation development; application of QbD for scale-up of mixing processes; application of QbD for vaccine drug product development; QbD strategies for visible and subvisible protein particle inspections and QbD for the distribution of environmentally sensitive pharmaceutical products.

Prerequisites: Master's status

Required Text Books:

1. Quality by Design for Biopharmaceutical Drug Product Development: AAPS Advances in Pharmaceutical Sciences, Volume 18. Editors: Feroz JameelSusan HershensonMansoor A. KhanSheryl Martin-Moe. Springer Publishing, 2019.

Recommended
None

Materials
Required

*All the guidelines are available to the FDA official website
(http://www.fda.gov/Drugs/default.htm) and
ICH official website (http://www.ich.org/home.html)

Course Objectives:

Number	Objective	How Assessed
1	Understanding the origins and need for QbD for pharmaceutical products, and the objectives for current QbD practices	Exam
2	Understanding the overall logic and flow of the QbD development process, including the use and application of the various tools applied	Exam

Schedule of Activities:

Week	Meeting Format	Meeting Topic	Course Student Learning Outcomes	Instructor
Week 1	Lecture and Discussion	Definitions and Scope of Key Elements of QbD	Define and understand the concept of QbD	Dr. Jones
Week 2	Lecture and Discussion	An Overview of Quality by Design for Drug Product	Summarize QbD key guidances and programs	Dr. Jones
Week 3	Lecture and Discussion	Development of Drug Product Formulations: Molecular Design and Early Candidates Screening	Explain the goal in formulation development	Dr. Jones
Week 4	Lecture and Discussion	Approaches for Early Developability Assessment of Proteins to Guide Quality by Design of Liquid Formulations	Define the impact on clinical performance and drug manufacturing process	Dr. Jones

Week 5	Lecture and Discussion	Application of QbD Principles to Late-Stage Formulation Development for Biological Liquid Products	Describe importance of maintaining a protein drug in its active state in biological liquid products	Dr. Jones
Week 6	Lecture and Discussion	Application of QbD Principles for Lyophilized Formulation Development	Explain the characterization of the lyophilized drug product and its application in QbD	Dr. Jones
Week 7	Lecture and Discussion	Quality by Design as Applied to Drug Substance Formulation Using Ultrafiltration and Diafiltration	List steps used in the development of UF, DF and TFF processes.	Dr. Jones
Week 8	Lecture and Discussion	Lyophilization Process Design and Development Using QbD Principles	List and define the three distinct phases of the freeze-drying process of pharmaceuticals	Dr. Jones
Week 9	**Midterm Exam**			
Week 10	Lecture and Discussion	Visible and Subvisible Protein Particle Inspection Within a QbD-Based Strategy	Classify and categorize particle types by origin Describe the Quality Target Product Profile process	Dr. Jones
Week 11	Lecture and Discussion	Devices and Combination Products for Biopharmaceuticals	Describe devices and combination products used in biopharmaceuticals	Dr. Jones
Week 12	Lecture and Discussion	Applicability of QbD for Vaccine Drug Product Development	Define applications of QbD for vaccine drug products	Dr. Jones
Week 13	Lecture and Discussion	Automation and High-Throughput Technologies in Biopharmaceutical Drug Product Development with QbD Approaches	Compare and contrast QbD approaches in molecule assessment and engineering, computational methods and	Dr. Jones

			automation technologies	
Week 14	Lecture and Discussion	Drug Substance Frozen Storage and Thawing	Illustrate common practices for freezing protein drug substances	Dr. Jones
Week 15	Lecture and Discussion	A QbD Approach in the Development and Scale-Up of Mixing Processes	Understand how fluid dynamics are related to mixing processes	Dr. Jones
Week 16	Lecture and Discussion	Quality by Design for Distribution of Environmentally Sensitive Pharmaceutical Products	Explain the QbD framework used for the development of product life cycle for temperature sensitive products	Dr. Jones
Week 17	**Final Exam**			

Schedule of Activities: (*Instructor: List each day class meets, exam schedule, major project schedule, map learning outcomes to course objective or MUSOP abilities.*)

* - indicates a major assessment

COURSE DELIVERY, ATTENDANCE, EVALUATION AND GRADING

Course Delivery

Course delivery will include lectures, independent learning, group discussions and student presentations. Students are required to be prepared with the appropriate technology needed for the course and each session. You will need a Turning Technologies Response RF device for in-class polling incorporated into PowerPoint presentations. For Quizzes and Exams, each student is required to bring a laptop and may be required to have Respondus Lockdown Browser installed as described below under Test Security section of the syllabus. Student presentations will require preparation using a laptop with MS PowerPoint.

Each student will be expected to participate in a number of active learning activities and will also be expected to give presentations to their classmates during the semester. The presentations will be open for comment and discussion by the other students in the class. Incomplete or late presentations will receive no credit. Some student presentations will be in the form of PowerPoint slides (5 slides maximum) and/or a written one page summary. Presentations, active learning activities, written summaries and participation in discussions will account for 8% of the final course grade.

Attendance Policy

As most activities scheduled in this course involve an active learning component which requires student participation, each student is required to attend class. Attendance is mandatory for quizzes and exams. Only excused absences will be accepted (see University and School policies). Make up exams and quizzes will be given only in cases of extraordinary circumstances due to documented illness (note from doctor) or death of a close family member. Work schedules, car problems and day care issues are not considered valid excuses for missing exams or quizzes.

Examinations and Quizzes

At least 80% of the questions on examinations and quizzes will come from information contained in course postings/handouts. The remaining percentage of the questions will come from material covered in lectures, independent and collaborative learning sessions, student presentations and group discussions.

Six quizzes (4 pts each) will be given at the beginning of selected classes throughout the course (24% of course grade). A block exam (15 pts) will be administered approximately every four weeks for a total of four block exams during the course (60% of course grade). The course will end with a combined fourth block exam and comprehensive exam (40% from last block, 60% from previous blocks) worth 16% of the course grade.

Use of cell phones, pagers, MP3 players, headphones, texting, etc. is prohibited during class time. Please turn all of these devices to vibrate or off upon entering the classroom. If emergency communications are required, please excuse yourself from class; a proctor will accompany you during all evaluative portions.

Grading

Assessment	Course Grade
Quizzes (6 @ 4 pts ea)	24%
Exams (4 @ 15 pts ea)	60%
Comprehensive Final	16%
Total	100%

Letter grade distribution

A = 89.50 to100%
B = 79.50 to less than 89.50%
C = 69.50 to less than 79.50%
F = Less than 69.50%

Grade reporting

Students will receive their grades within seven days of completion of quizzes, exams and the course.

Course Evaluation

At or near the end of the course, students are expected to complete an evaluation of the course content, learning approaches, student assessment and Instructors according to School of Pharmacy procedures.

UNIVERSITY POLICIES

University policies regarding **Academic Dishonesty, Students with Disabilities, University Computing Services' Acceptable Use, Affirmative Action, and Sexual Harassment can be found at http://www.marshall.edu/wpmu/academic-affairs/policies/.**

SCHOOL OF PHARMACY POLICIES

Social Justice Policy Statement

Marshall University is committed to bringing about mutual understanding and respect among all individuals and groups at the University. As part of Marshall University, School of Pharmacy has made a commitment to social justice. Therefore, no one will be discriminated against on the basis of race, gender, ethnicity, age, sexual orientation, religion, social class, or differing viewpoints. Each student will be viewed as a valuable member of this class and course faculty will strive to facilitate an atmosphere of mutual understanding and respect in the learning environment.

ACADEMIC, ETHICAL, AND PROFESSIONAL CONDUCT

Student expectations for academic, ethical, and professional conduct are defined in 200.006 Ethical and Professional Conduct and the university's Academic Dishonesty Policy.

Remediation Policy

Remediation is a mechanism designed to assist students who have struggled within the classroom environment in demonstrating achievement of classroom and curricular learning outcomes. The process is described in the section 200.001.003 of the Academic Standards for Grading, Progressions, Dismissal, and Re-admission Policy.

Test Security Policy
Unless directed by the course instructor all assessments will be completed on the student's school issued iPad in the exemplify app. Please refer to the <u>400.003 Secure Testing Environment Standards</u> for further information on test security.

Marshall University Attendance Policy:
The University's policy on class attendance is described within the <u>Board of Governors Policy No. AA-13 Class Attendance</u> document. For more information about excused absences and professional leave, please refer to <u>200.010 Student Leave</u>.

Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: Pharmacy   Dept/Division: Pharmaceutical Scie⊞   Alpha Designator/Number: MSPS699   ⦿ Graded   ○ CR/NC

Contact Person: Eric Blough   Phone: x7394

NEW COURSE DATA:

New Course Title: Thesis

Alpha Designator/Number: | M | S | P | S | | 6 | 9 | 9 | |

Title Abbreviation: | T | h | e | s | i | s | | | | | | | | | | | | | | | | | | | |
(Limit of 25 characters and spaces)

Course Catalog Description: Thesis
(Limit of 30 words)

Co-requisite(s): None   First Term to be Offered: Fall 2020

Prerequisite(s): None   Credit Hours: 1-6

Course(s) being deleted in place of this addition (*must submit course deletion form*):   None   NOV 20 2019 PM 1:27

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _By Rosally_   Date 11/19/19

Registrar _Sonya GK_   51 2010   Date 11/20/19

College Curriculum Chair _Brill Bily_   Date 11/19/19

Graduate Council Chair _____   Date _____

College: Pharmacy   Department/Division: Pharm. Sciences   Alpha Designator/Number: MSPS699

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

 Any faculty who has graduate faculty status and has a MS student in their laboratory

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "**Not Applicable**" if not applicable.

 Not Applicable

3. REQUIRED COURSE: If this course will be required by another deparment(s), identify it/them by name. Enter "**Not Applicable**" if not applicable.

 Not Applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "**Not Applicable**" if not applicable.

 Not Applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "**Not Applicable**" if not applicable.
 Not Applicable

6. COURSE OBJECTIVES: (May be submitted as a separate document)

 Development and defense of a meaningful research proposal examining a specific hypothesis.

7. COURSE OUTLINE (May be submitted as a separate document)

Student research project, under guidance of the faculty advisor.

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

Not applicable

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Lecture, laboratory, one-on-one meetings

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Evaluation of progress towards completion of thesis research and writing.

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Not applicable.

12. PROVIDE COMPLETE BIBLIOGRAPHY   (May be submitted as a separate document)

Not applicable.

Request for Graduate Course Addition - Page 5

Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Pharmaceutical Science and Research
Course Number and Title: MSPS699 Thesis
Catalog Description: Prerequisites: Full admission to the MSPS program.
First Term Offered: Fall 2020
Credit Hours: 1-6

Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: CAM   Dept/Division: Music   Alpha Designator/Number: MUS 537   ⦿ Graded   ◯ CR/NC

Contact Person: Michael Stroeher   Phone: 63109

NEW COURSE DATA:

New Course Title: Brass Band of the TriState

Alpha Designator/Number: | M | U | S | | 5 | 3 | 7 | | |

Title Abbreviation: | B | r | a | s | s | | B | a | n | d | | | | | | | | | | | | | | | |

(Limit of 25 characters and spaces)

Course Catalog Description: A community/university ensemble modeled after the British-style brass band.
(Limit of 30 words)

Co-requisite(s): None   First Term to be Offered: Fall 2020

Prerequisite(s): Permission of instructor   Credit Hours: 1

Course(s) being deleted in place of this addition (*must submit course deletion form*):

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _Susan Niang_   Date 10-17-19

Registrar _Sonya GCf_   500903   Date 10-17-19

College Curriculum Chair _Sandra Reed_   Date 2-11-19

Graduate Council Chair _Lori Howard_   Date 2-1-2020

Form updated 10/2011   Page 1 of 5

College: CAM   Department/Division: Music   Alpha Designator/Number: MUS 537

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

Michael Stroeher

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "*Not Applicable*" if not applicable.

n/a

3. REQUIRED COURSE: If this course will be required by another deparment(s), identify it/them by name. Enter "*Not Applicable*" if not applicable.

n/a

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "*Not Applicable*" if not applicable.

n/a

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "*Not Applicable*" if not applicable.

n/a

6. COURSE OBJECTIVES: (May be submitted as a separate document)

See attached

7. COURSE OUTLINE   (May be submitted as a separate document)

See attached

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

See attached

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

See attached

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

See attached

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

Ensemble leadership: section principal.

12. PROVIDE COMPLETE BIBLIOGRAPHY   (May be submitted as a separate document)

See attached

Request for Graduate Course Addition - Page 5

Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Music
Course Number and Title: MUS 537Brass Band of the TriState
Catalog Description: A community/university ensemble modeled after the British-style brass band.
Prerequisites: Permission of instructor
First Term Offered: F 2020
Credit Hours: 1

Marshall University School of Music
Syllabus

Course Title/Number	Brass Band of the TriState MUS 2XX, 4XX, 5XX
Semester/Year	Fall 2019
Days/Time	T, 7:00 – 9:00 pm
Location	Smith Music Hall 143
Instructor	Dr. Michael Stroeher
Office	Smith Music Hall 307
Phone	304.696.3109
E-Mail	stroeher@marshall.edu
Office/Hours	M-F 9:00 and by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: From Catalog

A community/university ensemble modeled after the British-style brass band

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

Course Student Learning Outcomes	How students will practice each outcome in this Course	How student achievement of each outcome will be assessed in this Course
1. Students will develop skills in ensemble playing including intonation, rhythmic accuracy, sight-reading, musical expression and interpretation.	Individual practice of assigned materials Group rehearsal	Performance in rehearsal of assigned materials;
2. Students will perform in public music written for British-style brass band.	Public performance	Aural assessment of public performance
3. Students will promote the brass program and assist in recruiting brass students to the Marshall University department of music.	Public performance	Aural assessment of public performance off campus

Required Texts, Additional Reading, and Other Materials

Folders and music will be provided by the Brass Band of the TriState

Required equipment
Professional-quality instrument
Mouthpiece
Straight and cup mutes

Course Requirements / Due Dates

Due Dates
1. Concerts TBD

Grading Policy

Based on attendance (see above) and preparation/performance of assigned materials. One unexcused absence will be allowed per semester. Subsequent unexcused absences will result in the lowering of the student's grade by one letter. Tardiness or obvious lack of preparation will count as one-half an unexcused absence. Unexcused absence from dress rehearsal or performance will result in an F for the semester.

Attendance Policy

"Just showing up is 80% of life"--Woody Allen
In order for an absence to be excused, you must meet the guidelines for excused absences as stated in the Marshall University Undergraduate Catalog [online at http://www.marshall.edu/catalog/undergraduate/] and have written approval from the dean of students. The student must bring the official excuse to the next class period he/she attends.

Course Schedule
See: "Due Dates" above.

Cell Phones
Professional rehearsal etiquette precludes the use of cell phones in rehearsal and performance.

Students with Disabilities

For University policies and the procedures for obtaining services, please go to MU Academic Affairs: University Policies and read the section, **Students with Disabilities.**
(URL: http://www.marshall.edu/academic-affairs/policies/)

Rationale

The Brass Band of the Tri-State has been in existence as a community group for over 25 year consisting of regional amateur musicians, music educators, and university students. It has been offered for credit to Marshall University students as a section of MUS 258, MUS 458, MUS 558 (Brass Ensemble) and is presently being taught as a Special Topics course. Having its origins in nineteenth-century Britain as a wholesome activity for factory workers, the brass band has become one of the most widespread wind-instrument performing mediums in the world (https://music.unt.edu/ensembles/brass-band). In the past thirty years a number of music schools have formed British-style brass bands as a part of their wind studies programs, including James Madison University, the University of Georgia, North Carolina State University, Indiana University, Peabody Conservatory, the University of North Texas, and the Eastman School of Music. In addition, a number of community have university affiliation, such as the Atlantic Brass Band with Rowan University, the Brass Band of the Western Reserve with the University of Akron, the Fillmore Philharmonic Brass with Northern Kentucky University, and the Colorado Brass Band with Western State Colorado University (Taylor 2016). The Brass Band of the TriState is envisioned as such an affiliated ensemble, with students able to enroll for credit in a group that includes community members in the manner of the Marshall Orchestra, the Concert Band, and the University Chorus.

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Hazelman, Herbert. "The British Brass Band." The Instrumentalist 16, no. 1 (September 1961): 59–60.

Hazen, Margaret Hindle, and Robert M. Hazen. The Music Men: An Illustrated History of Brass Bands in America, 1800`1920. Washington, D.C: Smithsonian Institution Press, 1987.

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Request for Graduate Course Addition

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: School of Pharmacy   Dept/Division: Pharmacy Practice   Alpha Designator/Number: PHAR 801-102   ● Graded   ○ CR/NC

Contact Person: Christopher Booth   Phone: 304-696-7337

NEW COURSE DATA:

New Course Title: Residency and Postgraduate Training Preparation

Alpha Designator/Number: | P | H | A | R | | 7 | 3 | 3 | |

Title Abbreviation: | R | e | s | i | d | e | n | c | y | | P | r | e | p | a | r | a | t | i | o | n | | | | |
(Limit of 25 characters and spaces)

Course Catalog Description:
(Limit of 30 words)

This course will help to prepare the pharmacy student for completion of postgraduate training, exploring processes including research project design and execution, interviewing, residency applications, and professional development.
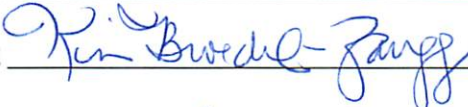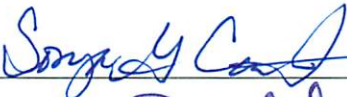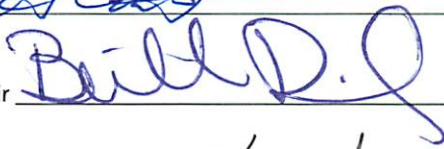
Co-requisite(s): n/a   First Term to be Offered: Fall 2020

Prerequisite(s): P3 Standing   Credit Hours: 3

Course(s) being deleted in place of this addition (*must submit course deletion form*):   PHAR 801-102: SpTp: Residency Prep

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head _Kim Broedel-Zaugg_   Date 11-25-19

Registrar _Sonya L Cox_   512308   Date 12-5-19

College Curriculum Chair _Bill D.P._   Date 11/25/19

Graduate Council Chair _Lori Howard_   Date 2-1-2020

Form updated 10/2011   Page 1 of 5

College: School of Pharmacy   Department/Division: Pharmacy Practice, Administ   Alpha Designator/Number: PHAR 733

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. FACULTY: Identify by name the faculty in your department/division who may teach this course.

Christopher Booth
Chelsea Gresham-Dolby

2. DUPLICATION: If a question of possible duplication occurs, attach a copy of the correspondence sent to the appropriate department(s) describing the proposal. Enter "**Not Applicable**" if not applicable.

Not applicable

3. REQUIRED COURSE: If this course will be required by another deparment(s), identify it/them by name. Enter "**Not Applicable**" if not applicable.

Not applicable

4. AGREEMENTS: If there are any agreements required to provide clinical experiences, attach the details and the signed agreement. Enter "**Not Applicable**" if not applicable.

Not applicable

5. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials to teach this course, attach an estimate of the time and money required to secure these items. (Note: Approval of this form does not imply approval for additional resources.) Enter "**Not Applicable**" if not applicable.
Not applicable

6. COURSE OBJECTIVES: (May be submitted as a separate document)

1. Describe postgraduate training opportunities for pharmacists and the activities involved with each
2. Develop a curriculum vitae and a letter of intent
3. Develop and deliver a pharmacy presentation as would be done on a pharmacy residency interview
4. Conduct a small-scale research project and present the findings in a professional poster
5. Complete a mock residency interview process

7. COURSE OUTLINE (May be submitted as a separate document)

Week 1: Introduction to Post-Graduate Training
Week 2: Residency Expectations
Week 3: Research process/Preparing professional posters
Week 4: Making the Most of Your APPEs
Week 5: General Marketability
Week 6: Letters of intent
Week 7: Curriculum vitae (CV)
Week 8: Residency/Fellowship Application Process
Week 9: Midyear/Residency Showcase
Week 10: Interviews
Week 11: Formal Presentations
Week 12: The Match/Scramble Process
Week 13: Posters Update/Presentation topic
Week 14: Being a successful resident
Week 15: Student Presentations

8. SAMPLE TEXT(S) WITH AUTHOR(S) AND PUBLICATION DATES (May be submitted as a separate document)

Get the Residency, "ASHP's Guide to residency Interviews and Preparation" by Joshua Caballero, Kevin A Clauson, and Sandra Benavides (2012)

9. EXAMPLE OF INSTRUCTIONAL METHODS (Lecture, lab, internship)

Asynchronous delivery: recorded lecture, discussion forum/journal, simulation

10. EXAMPLE EVALUATION METHODS (CHAPTER, MIDTERM, FINAL, PROJECTS, ETC.)

Course Assessments and Percentage of Final Grade: Reflections on Assigned Reading Chapters 10%, Formal Presentation 15%, Professional Poster 15%, Letter of Intent 15%, Curriculum vitae 15%, Mock Interview 15%, Abstract 15%

11. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE/GRADUATE COURSE

n/a

12. PROVIDE COMPLETE BIBLIOGRAPHY   (May be submitted as a separate document)

Get the Residency, "ASHP's Guide to residency Interviews and Preparation" by Joshua Caballero, Kevin A Clauson, and Sandra Benavides (2012)

Request for Graduate Course Addition - Page 5

Please insert in the text box below your course summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings):

Department:
Course Number and Title:
Catalog Description:
Prerequisites:
First Term Offered:
Credit Hours:

Department: Pharmacy Practice, Administration, and Research
Course Number and Title: PHAR 733
Catalog Description: This course will help to prepare the pharmacy student for completion of postgraduate training, exploring processes including research project design and execution, interviewing, residency applications, and professional development.
Prerequisites: P3 Standing in the School of Pharmacy
First Term Offered: To be offered as PHAR 733 Fall 2020 (first offered as a special topics course in Fall 2015; offered for 4 fall semesters total)
Credit Hours: 3